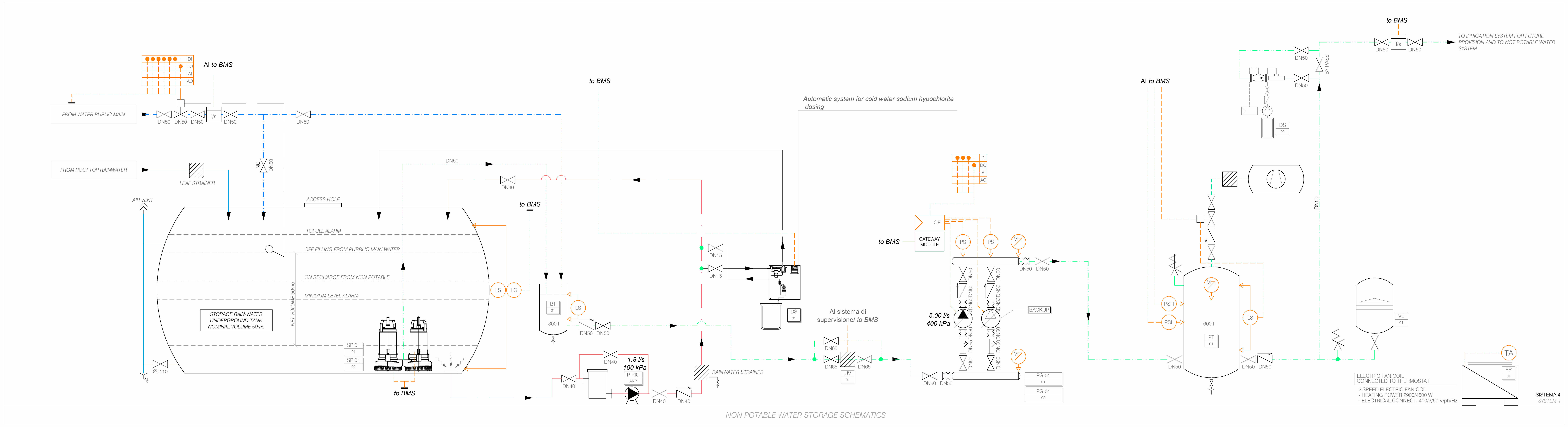
A0 - Do not scale


AI to BMS
DI
DO
AI
AO
FROM WATER PUBLIC MAIN
DN50
DN50
DN50
l/s
DN50
DN50
FROM ROOFTOP RAINWATER
LEAF STRAINER
NC
DN50
AIR VENT
ACCESS HOLE
TOFULL ALARM
OFF FILLING FROM PUBBLIC MAIN WATER
ON RECHARGE FROM NON POTABLE
MINIMUM LEVEL ALARM
NET VOLUME 50mc
STORAGE RAIN-WATER UNDERGROUND TANK NOMINAL VOLUME 50mc
SP 01
01
SP 01
02
Øe110
to BMS
DN50
DN40
to BMS
LS
LG
BT
01
300 l
LS
DN50
DN50
DN40
DN40
1.8 l/s
100 kPa
P RIC
ANP
DN40
DN40
RAINWATER STRAINER
to BMS
Automatic system for cold water sodium hypochlorite dosing
DN15
DN15
DS
01
AI sistema di supervisione/ to BMS
DN65
DN65
DN65
UV
01
DI
DO
AI
AO
QE
to BMS
GATEWAY MODULE
PS
PS
M
DN50
DN50
DN50
DN50
DN50DN50
DN50DN50
5.00 l/s
400 kPa
BACKUP
DN65DN50
DN50DN50
DN50
DN50
M
DN50
DN50
PG 01
01
PG 01
02
AI to BMS
PSH
PSL
M
600 l
PT
01
LS
DN50
DN50
DN50
DN50
DN50
DN50
BY PASS
DS
02
to BMS
l/s
DN50
DN50
TO IRRIGATION SYSTEM FOR FUTURE PROVISION AND TO NOT POTABLE WATER SYSTEM
DN50
VE
01
TA
ER
01
ELECTRIC FAN COIL CONNECTED TO THERMOSTAT
2 SPEED ELECTRIC FAN COIL
- HEATING POWER 2900/4500 W
- ELECTRICAL CONNECT. 400/3/50 V/ph/Hz
SISTEMA 4
SYSTEM 4

NON POTABLE WATER STORAGE SCHEMATICS

SYMBOL	DESCRIPTION
M	DIAL PRESSURE GAUGE WITH THREE-WAY TEST TAP
PS	PRESSURE SWITCH
PSH	HIGH PRESSURE SWITCH
PSL	LOW PRESSURE SWITCH
LS	LEVEL-SWITCH
TA	ELECTRIC FANCOIL CONTROL THERMOSTAT
QE	POWER AND CONTROL DASHBOARD
⋈	SHUT-OFF VALVE
	CHECK VALVE
	2 WAY VALVE WITH MOTOR
	SAFETY VALVE
	ANTI-VIBRATION JOINT
	Y FILTER
▨	CARTRIDGE FILTER

SYMBOL	DESCRIPTION
	SCARICO CONVOGLIATO PIPED DISCHARGE
	DISCHARGE VALVE
	PIPE COLLECTOR
l/s	VOLUMETRIC FLOW METER
	INVERTED ELECTRONIC PUMP
	AIR COMPRESSOR
	DIAPHRAGM EXPANSION VESSEL WITH
	PRESSURIZED WATER TANK
	AIR COMPRESSOR

SYMBOL	DESCRIPTION
DCW	DOMESTIC COLD WATER SUPPLY - galvanized pipes
DHW	DOMESTIC HOT WATER SUPPLY - insulated galvanized pipes
NPW	NON POTABLE WATER SUPPLY - PEHD (underground) or galvanized pipes (outside)
SOF	SOFTENED WATER SUPPLY - galvanized pipes
RW	RAINWATER PEHD
PG 01 nn	SINGLE PUMP
P RIC nn	RECIRCULATION PUMP
PT nn	PRESSURIZED TANK
BT nn	BREAK TANK
DS 01	DOSING SYSTEM
UV 01	UV LAMP

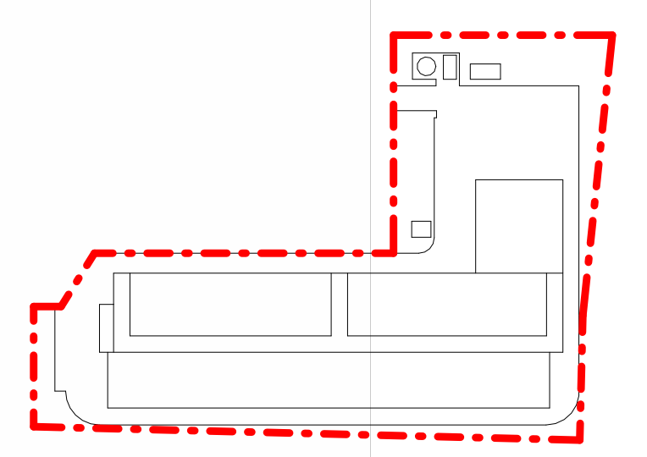
Firmato digitalmente da:
Roberto Cereda
Data: 01/08/2025 12:40:22

General Notes

1. This drawing has been checked in accordance with Black & White Engineering (B&W) QA checking procedures.
2. Do not scale from this drawing. All dimensions indicated are in millimeters unless otherwise stated. Validate all measurements on site.
3. All plant and equipment dimensions are typical. The Contractor should show actual, approved plant and equipment sizes.
4. This drawing is to be read in conjunction with all relevant B&W MEP specifications, schedules and standard key to symbols sheet.
5. Any discrepancies between the drawings and other documents should be brought to the attention of the engineer.
6. This drawing is not an installation drawing. It is the Contractors responsibility to make final coordinated installation shop drawings.
7. Final ceiling coordination subject to interior design package.
8. Contractor to coordinate final distribution routes with available sleeves and openings in beams / structure.
9. The contents of this drawing shall be read in conjunction with the current revisions of other relevant Architectural, Structural, Mechanical and Electrical drawings and all relevant sections of the specifications.

1000 0 1000 2000 3000 4000
SCALE: 1:100
N

Key Plan



GENERAL NOTES:
- Drawing valid only for mechanical installations under contract.
- All measurements and locations of materials and equipment are to be verified on site by the contractor, who shall promptly report any interference with existing.
- Any undetected equipment shall be maintained; if necessary, it shall be modified and restored by the contractor.
- Exact locations of equipment, materials, piping, ducts, connection to existing facilities shall be determined by the contractor and submitted to the construction manager.
- Final sizing according to the manufacturer of the equipment and materials actually installed.
- All equipment must be easily maintainable and accessible via trapdoors or similar solutions even where not specifically specified.
- It will be the contractor's responsibility to size and asseverate all supports, in a workmanlike manner and in compliance with all regulatory requirements for earthquake-proofing.
- Construction detail drawings necessary for the proper execution of the work shall be arranged by the contractor.
- The installation of elements in the field must comply with all manufacturers' prescriptions and recommendations, good engineering rules on acoustics and fire prevention.
- All planned and described interventions, evaluated on the basis of the available documentation, should be re-evaluated and deepened during the works, after plant verification following appropriate surveys of the existing situation.
- The contractor must carefully check the design and report any inaccuracies, incompleteness or discrepancies with any standard or law.
-Connections between two or more sections of duct both with indoor units and with ducts themselves, shall be made only with invitation fittings and not with hammered derivations or detachments. The Contractor shall be responsible for making construction drawings showing the type of derivations and connections between ducts and ducts with the indoor units provided.

Rev	Details	By / Chkd / App	Date
P01	STAGE 3 - 100% ISSUE	L22	28/02/2025

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Project Title
MIL05B

Drawing Title
External Services
Sitewide Non-Potable Water System
Schematics

Project Status
STAGE 3

Discipline
MECHANICAL

Status Code
S4

Project Number
P10504

Scale @ A0
NTS

Revision
P01

Drawing Number
MIL05B-L22-SW-SW-SC-M-90107

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